Figure 1

100 InfiniBand Standard Backplane Connector
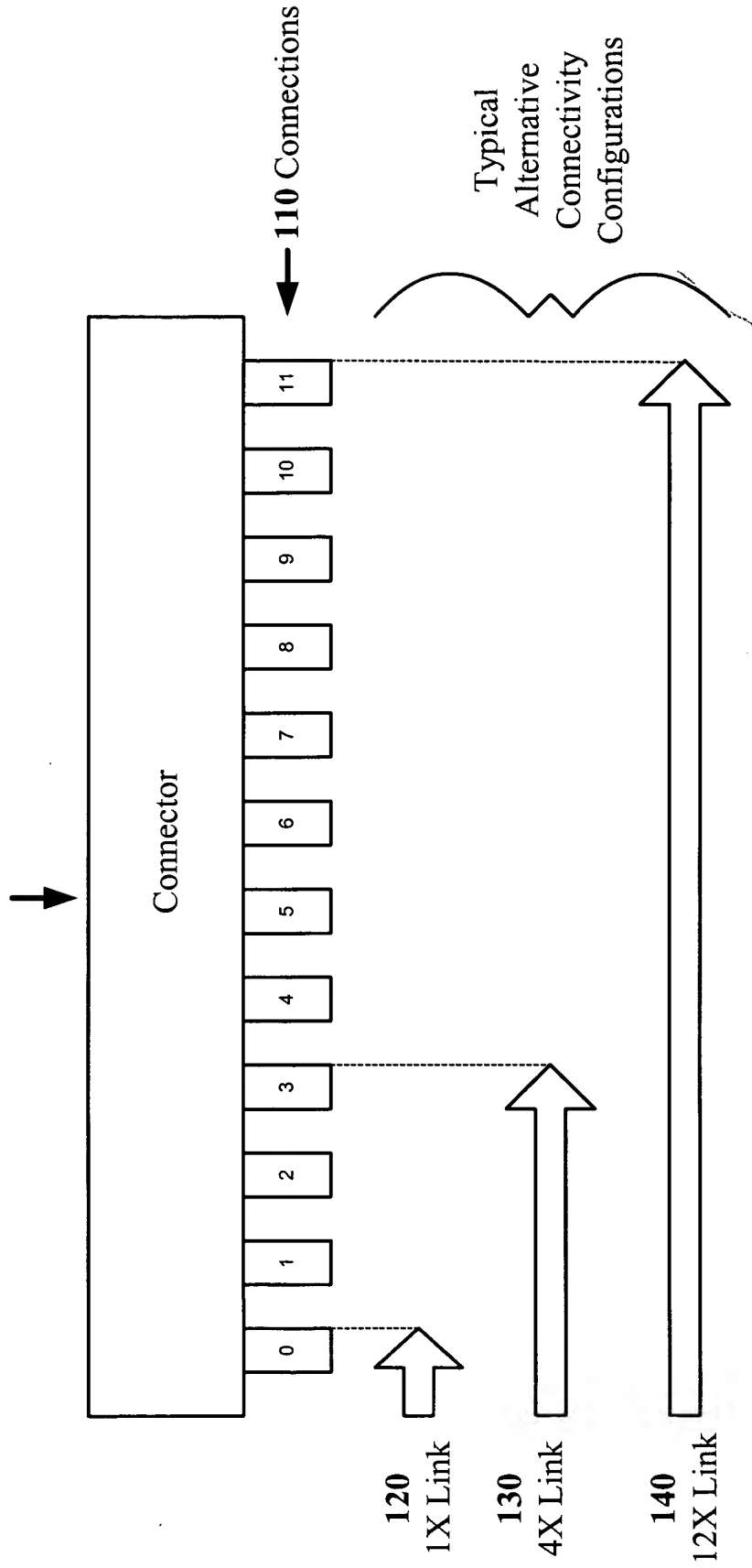
Connector

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

110 Connections

Typical
Alternative
Connectivity
Configurations

120
1X Link

130
4X Link

140
12X Link

Figure 2

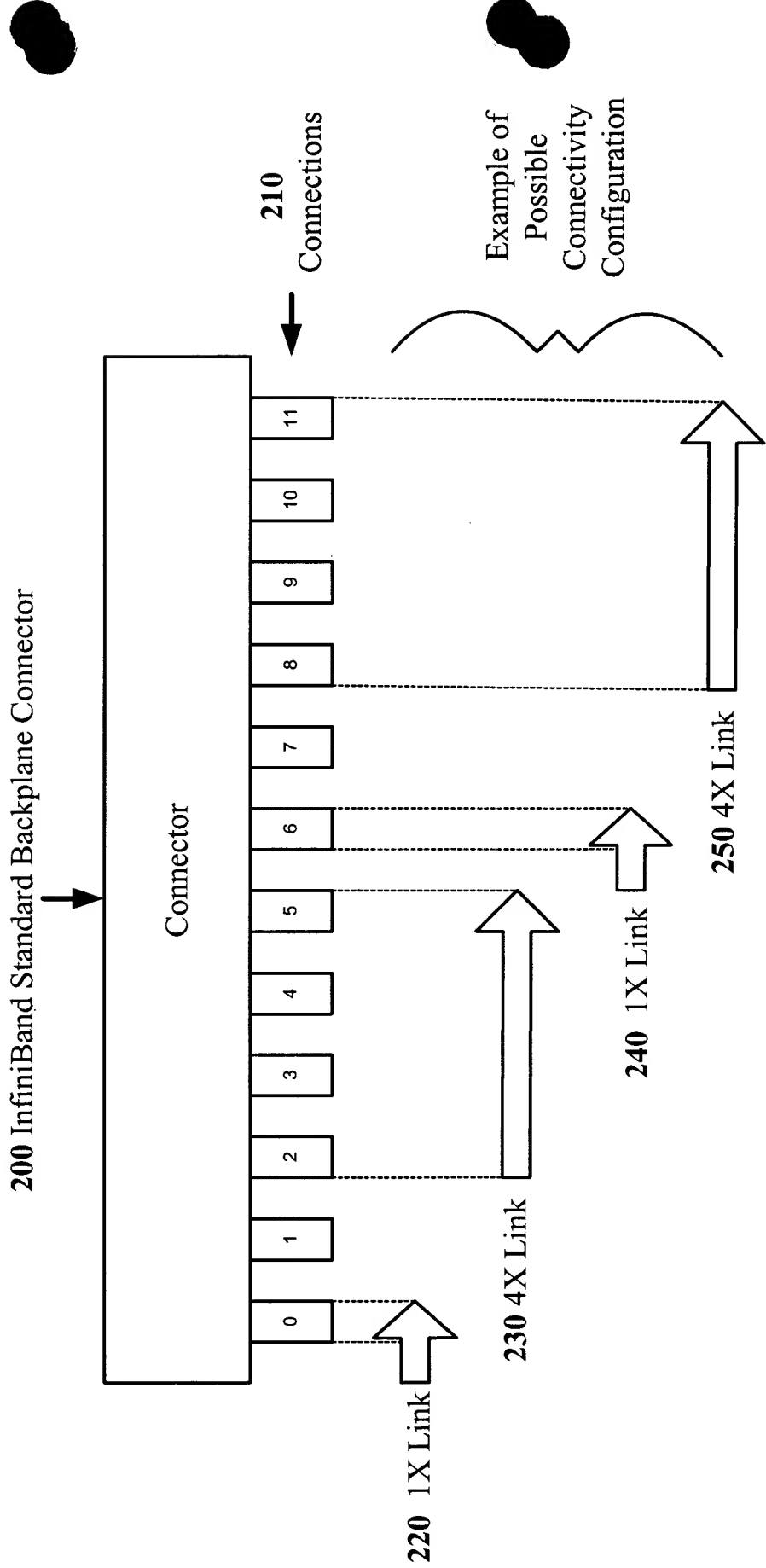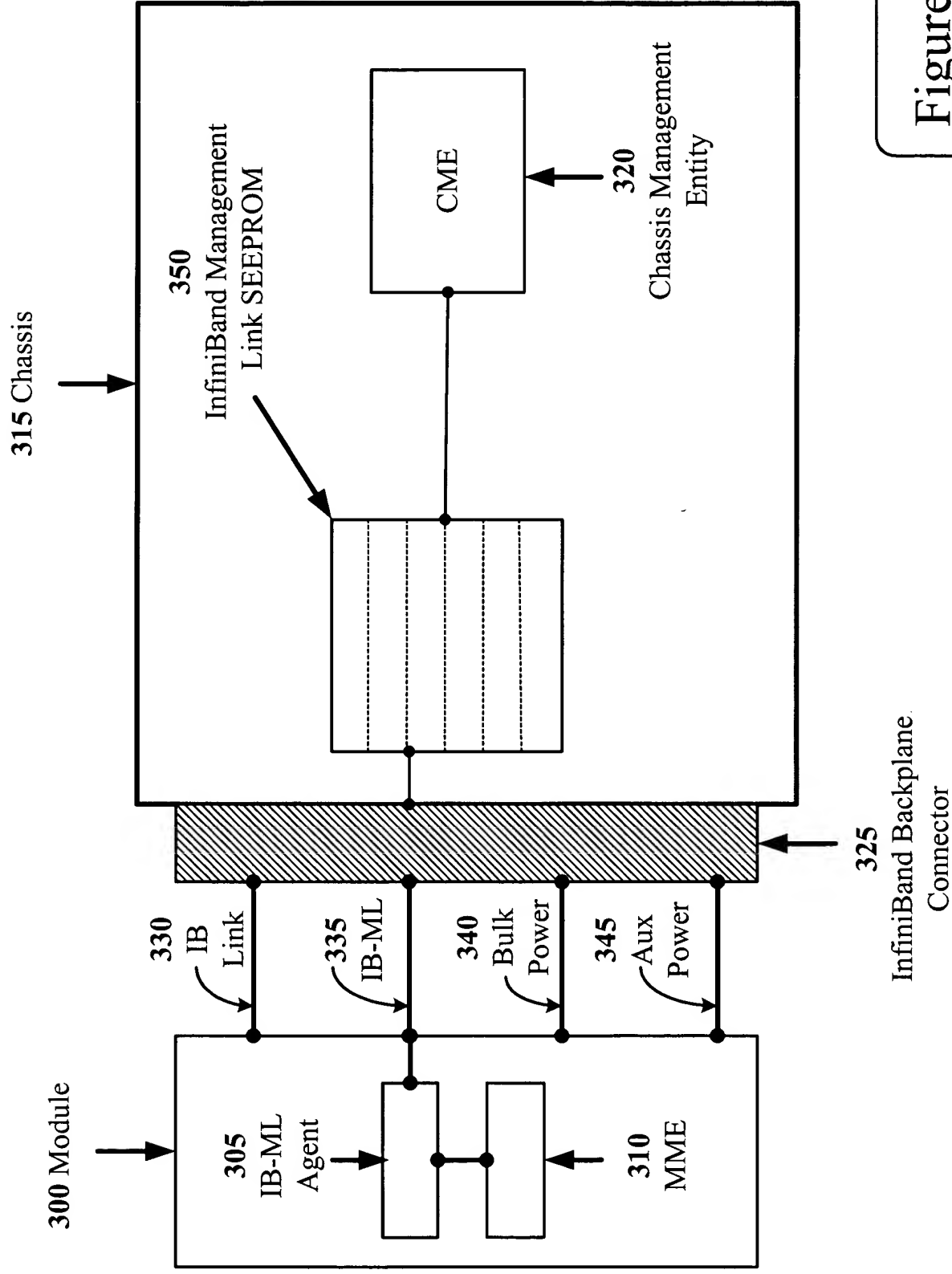**200 InfiniBand Standard Backplane Connector**

Connector

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

210 Connections

Example of Possible Connectivity Configuration

220 1X Link

230 4X Link

240 1X Link

250 4X Link

315 Chassis

350
InfiniBand Management
Link SEEPROM

CME

320
Chassis Management
Entity

325
InfiniBand Backplane
Connector

330 IB Link

335 IB-ML

340 Bulk Power

345 Aux Power

300 Module

305 IB-ML Agent

310 MME

Figure 3

Figure 4

415 Chassis

450 InfiniBand Management Link SEEPROM

CME

420 Chassis Management Entity

455 First Configuration Register

| REQUEST | RESPONSE |

460 Second Configuration Register

425 InfiniBand Backplane Connector

430 IB Link

435 IB-ML

440 Bulk Power

445 Aux Power

400 Module

405 IB-ML Agent

410 MME

Determine what links are
needed and formulate
configuration request   〜 500

505 〜 Is request
for an expanded
configuration?

NO → 535

Follow specified
requirements for
normal link
establishment

YES

Write configuration
request to
IB-ML SEEPROM register   〜 510

Detect the
response to the configuration
request from
IB-ML SEEPROM register   〜 515

520

NO   Affirmative
response
detected?   YES

525 〜 Initiate the connectivity
configuration
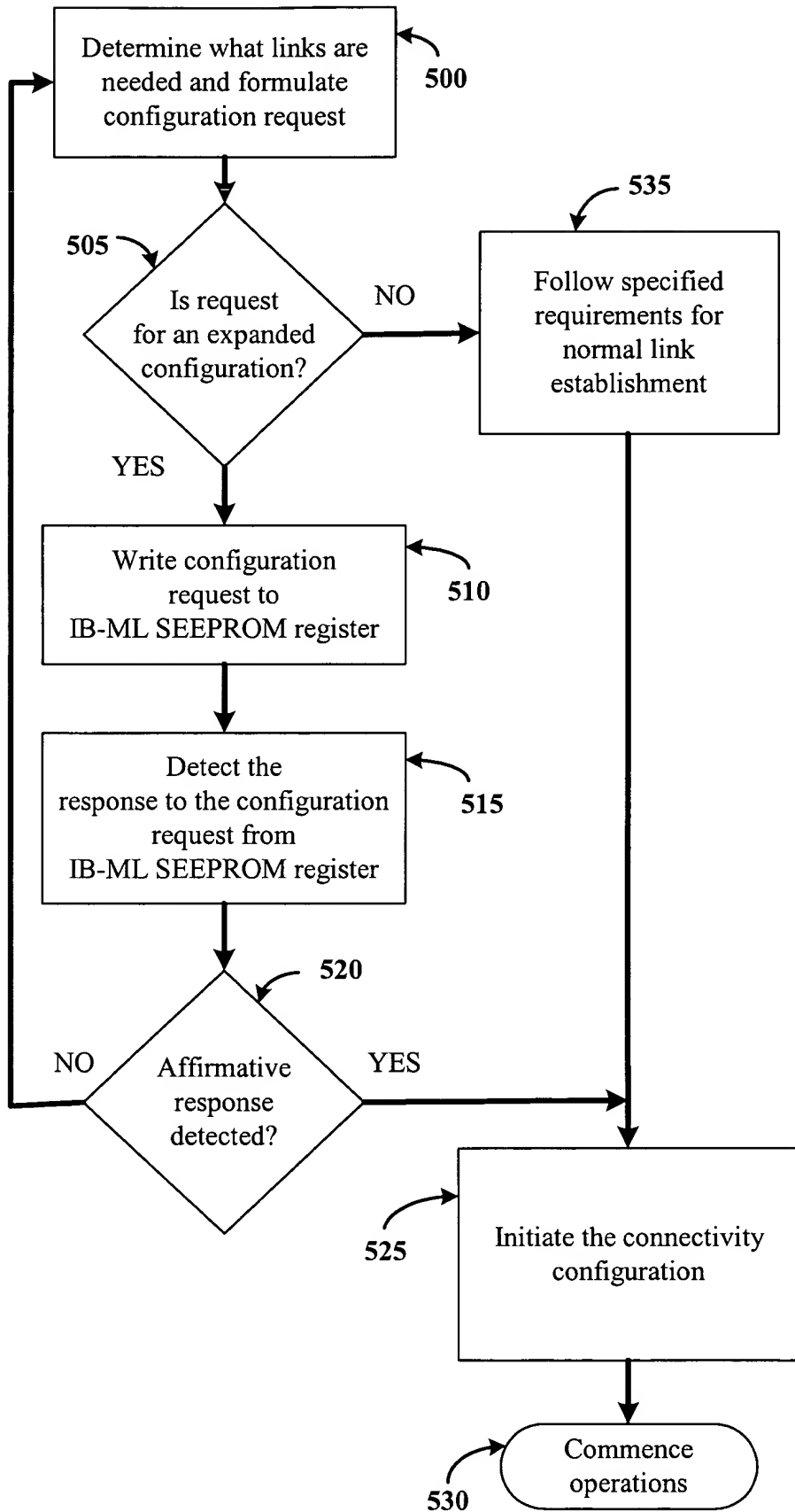
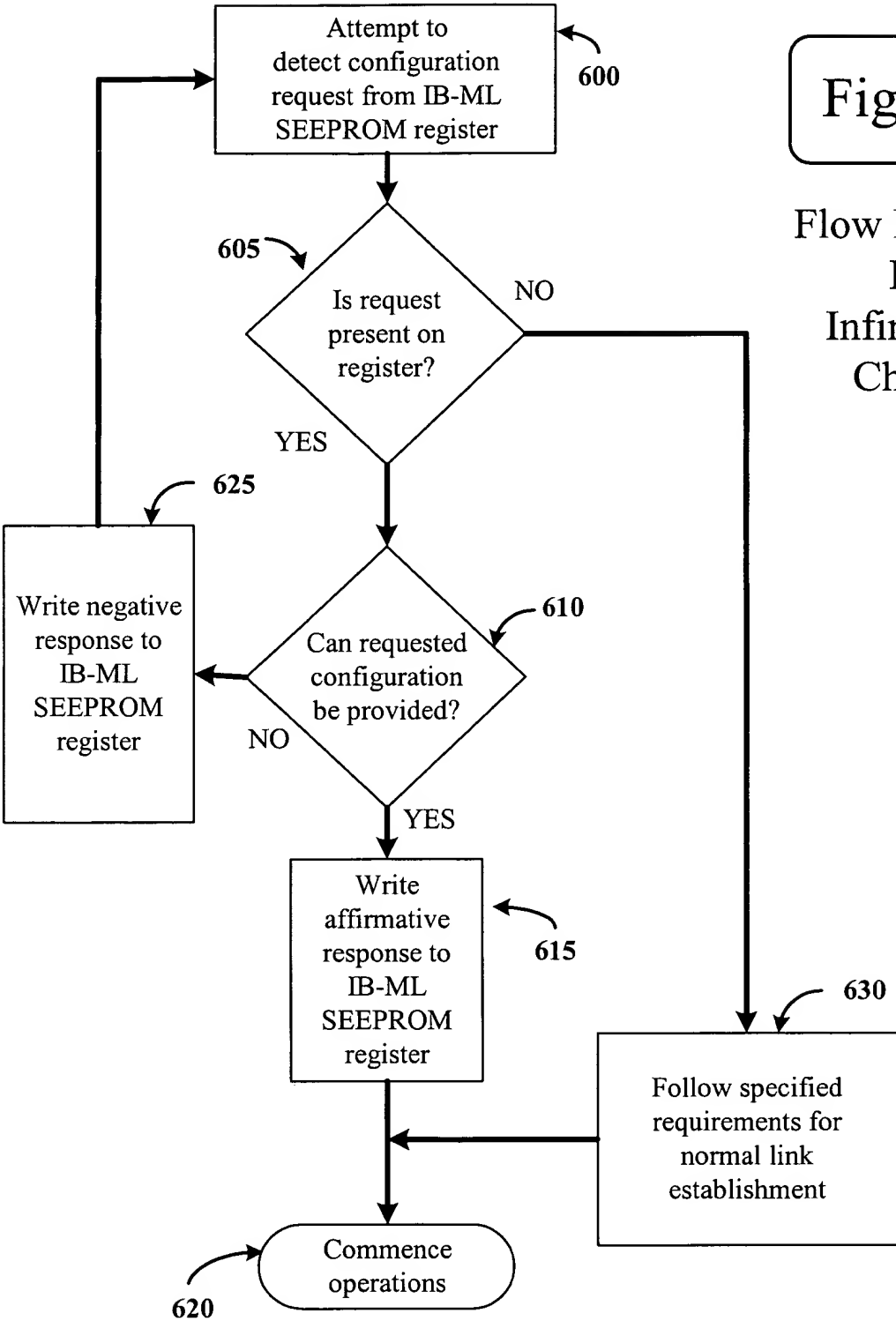Commence
operations

530

Figure 5

Flow Diagram
For
InfiniBand
Module

Figure 6

Flow Diagram For InfiniBand Chassis

Attempt to detect configuration request from IB-ML SEEPROM register — **600**

605 Is request present on register?

NO

YES

625 Write negative response to IB-ML SEEPROM register

Can requested configuration be provided? — **610**

NO

YES

Write affirmative response to IB-ML SEEPROM register — **615**

630 Follow specified requirements for normal link establishment

Commence operations

620